Section 1

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1 Safety precautions

1.1 System Components

While operating the ADC SOLO System, you should always check, that the following safety checks have been taken before bringing the ADC SOLO System into use:

- Make sure that the various components of the ADC SOLO System are installed in places where they can be constantly observed.
- Do not bypass or disable any incorporated safety features.
- Always disconnect any components of the ADC SOLO System from the mains before carrying out service or maintenance.
- Troubleshooting, or electrical or mechanical repairs, may only be carried out by qualified service personnel.
- AGFA-Gevaert reserves the right to modify and improve their equipment in order to adapt them to the latest technical standards.

There are no user-serviceable parts inside the ADC SOLO processing station or digitizer. Perform no other operations on the processing station or digitizer than the ones described in the ADC SOLO manual.

Note: The only reliable means of protecting the processing station against blackouts or other potentially damaging events such as power surges and brownouts is to use the optionally available battery-backed uninterruptible power supply (UPS). The UPS (option) ensures that the electrical flow to the processing station is not interrupted because of a blackout.

1.2 Digitizer

The ADC SOLO Digitizer makes use of approx 30 mW HeNe laser, classification class Ib.

In normal operating conditions, when both panels are closed, there can't be any laser radiation outside the unit. It is nevertheless imperative that the local radiation safety regulations regarding the protection of staff against scattered radiation are complied with, if the ADC SOLO Digitizer is located in the immediate vicinity of an X-ray room.

For laser safety, only open up the right panel as described in the user manual to solve possible cassette or image plate jams. When the panel is removed, the main power supply is **not** automatically disconnected to prevent laser radiation.

Do not open the unit and put in the service key in the interlocks , if any parts of the laser unit are uncovered.

WARNING ***User interventions other than those described in this manual can be hazardous with regard to laser radiation.***

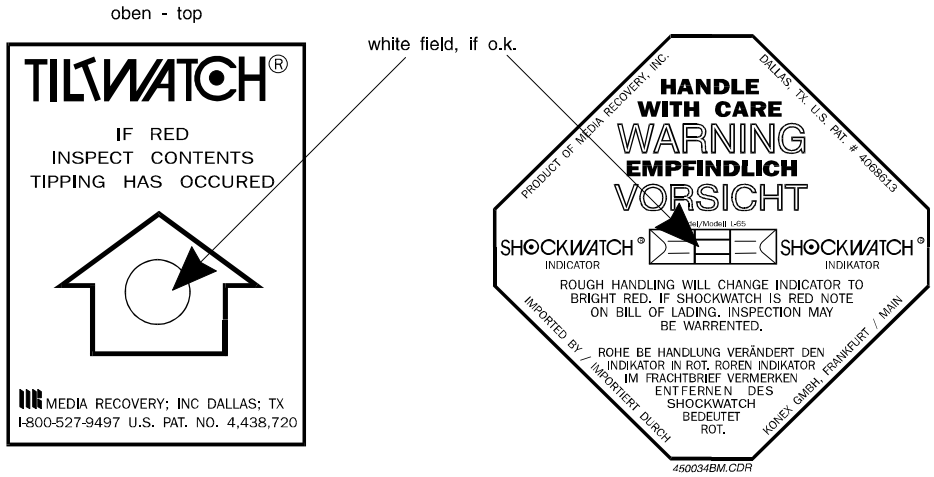
2 Preparation before installation

2.1 Inspection of packing

The following actions should be taken upon delivery of the system components, preferably by the customer:

- Completeness check of the shipment by means of the bill of delivery (number of pallets)
- Comparison of the labels on the boxes with the customer's order list and the shipping papers.
- Checking of the packing material for visible transport damage such as
  - dented edges
  - damage on the box
  - torn fixing elements (metal straps, screws)

  In case of damage visible from the outside turn to your local AGFA representative.
- Checking of the attached safety indicators on the packing boxes, see .



If the machine was tilted, the arrow head in the circle of the TILTWATCH changes from white to red.

If the machine was subjected to shocks, the square field in the middle of the SHOCKWATCH changes from white to red.

2.2 Unpacking the components

The following actions should be taken by the forwarder upon delivery of the system components.

- Removal of the outer packing material.

☞ The individual boxes inside must not be opened by the forwarder.

- The accessories or boxes should be taken out and stored in a safe place.
- The machine must be taken off the pallet and transported to the installation site.
- Disposal of the packing material.

For unpacking and lifting the machine off the pallet, an area of minimal 200 x 350 cm is required. If the available space at the installation site is limited, the machine can be unpacked beforehand and rolled to the installation site.

2.3 Checking the accessory kit

The following actions have to be done by the FSE (Field Service Engineer) at the customer site.

- Checking the scope of delivery:

  Compare the inventory of every component with the **packing list** which specifies the complete scope of delivery.

  ADC Solo Digitizer (for 100V / 120V 230-240V, 1N~, 50-60 Hz)

  1x ADC Solo Digitizer

  2x mains cable (1x US- connector, 1x Euro-DIN connector)

  1x CU-Filter

  1x UTP-Cable 5m

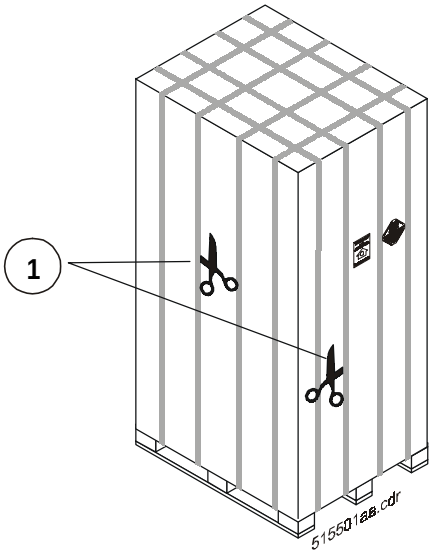
  6x Floppy Disk (3x Release floppy, 1x Boot floppy, 1x Backup, 1x Language)

2.4 Unpacking instructions

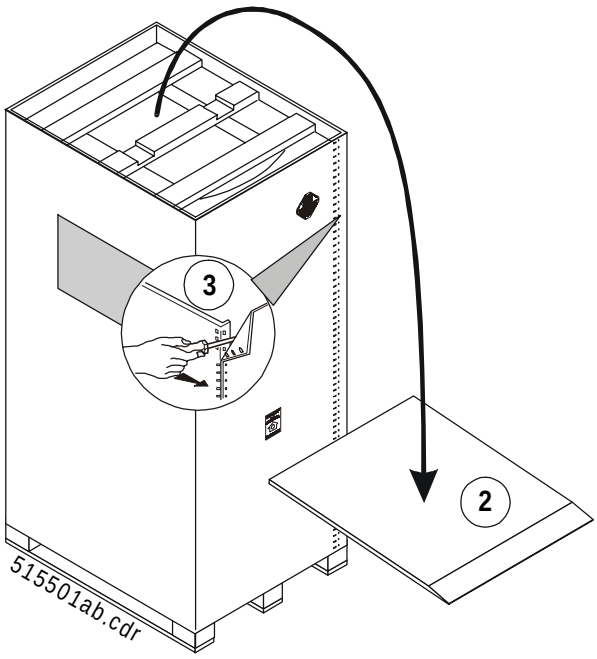
- Cut the fixing straps (1).

Risk of injuries

The fixing straps are tensioned.



- Remove the wooden top / ramp (2).
- Lift off the box or cut it open on one side (3).

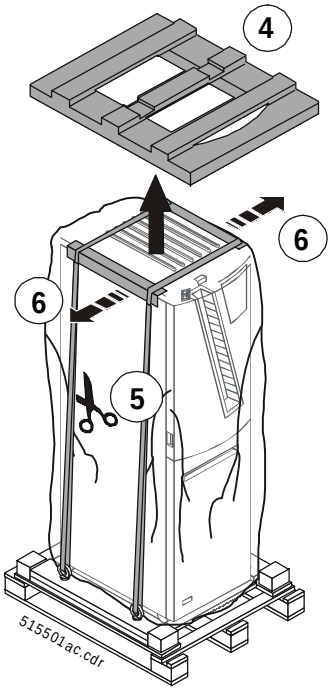


- Lift off the cushioning block at the top (4).
- Cut the fixing straps (5).

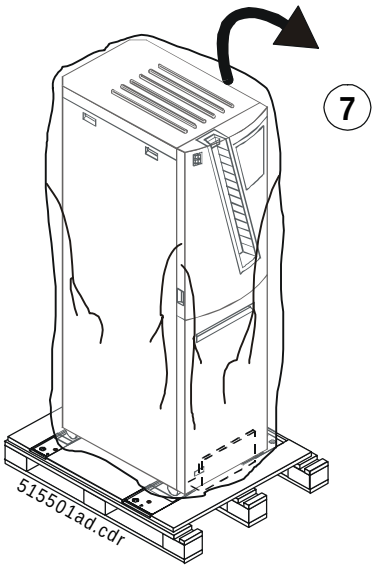
Risk of injuries

The fixing straps are tensioned.

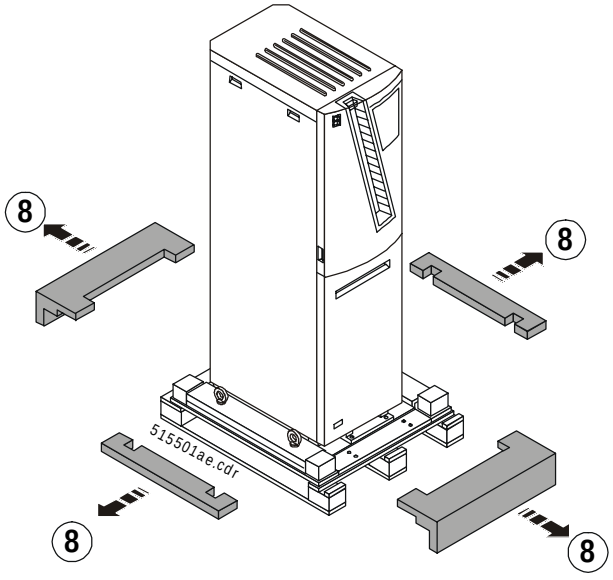
- Remove the safety edges (6)



- Lift off the adhesive foil cautiously (7).

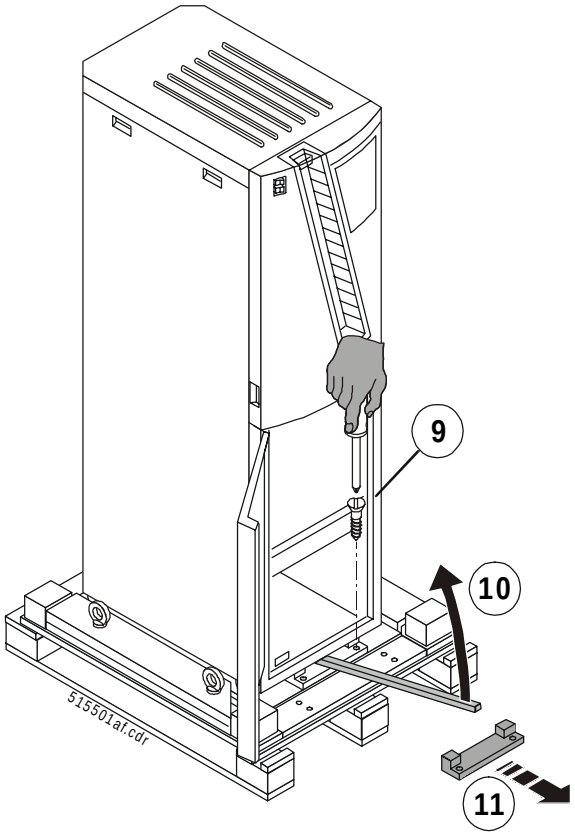


- Remove the four cushioning wedges (8)

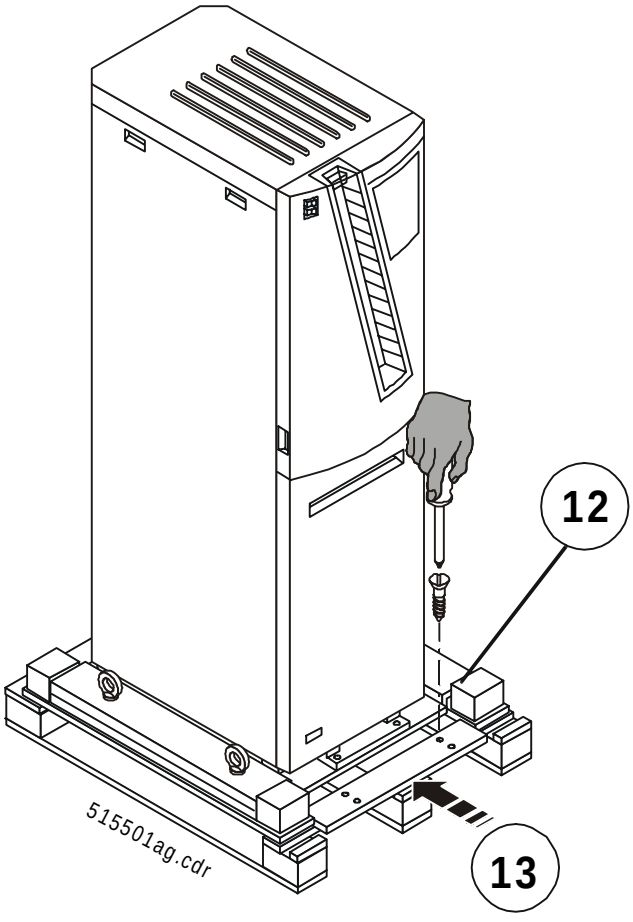


- Loosen the screws of the two wooden supports (front and rear side) of the machine (9).
- Lift the machine with the handle (fixed under the machine) only a little (10) and remove the wooden supports (11)

Open the front door of the machine **before** lifting up the front part . Otherwise the door could be damaged by the handle.

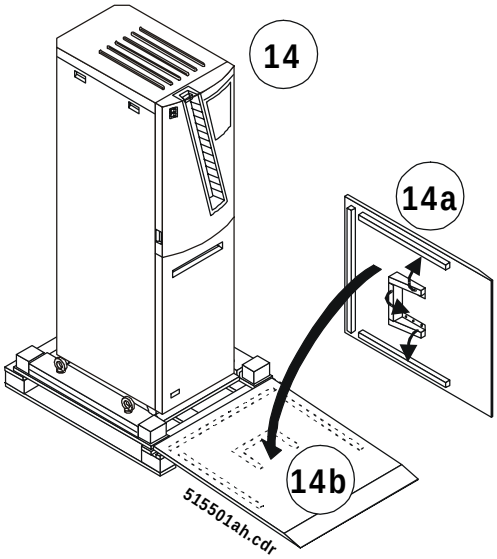


- Loosen the screws of the shelf at the front side of the pallet (12)
- Push the shelf back to the stop (13) and tighten the screws again.



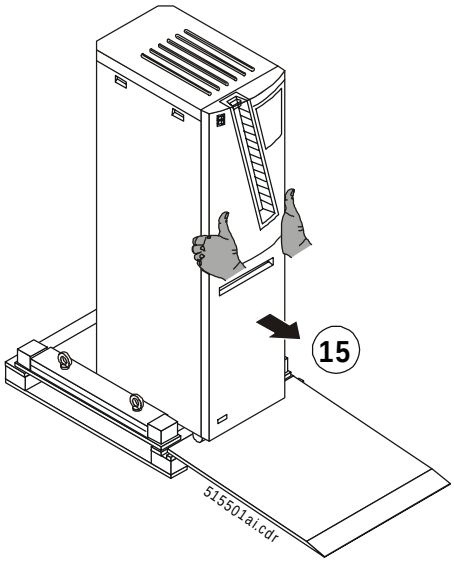
Fixing the ramp to the pallet (14)

- Open out the three wooden strips at the bottom of the ramp (14a)
- Attach the ramp to the groove of the pallet (14b)



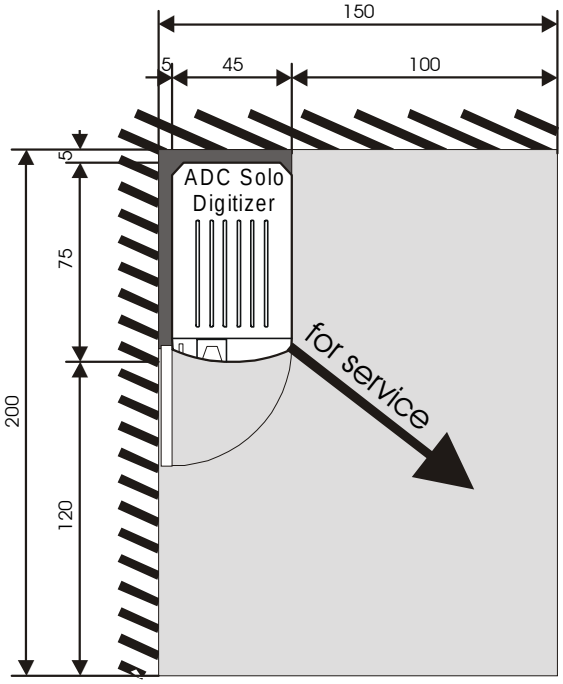
Make sure that the ramp has engaged properly to the pallet. Otherwise the machine might fall to the ground !

- Move the ADC Solo **cautiously** down the pallet (15).



3 Machine dimensions / Access for repair and maintenance

3.1 ADC Solo Digitizer

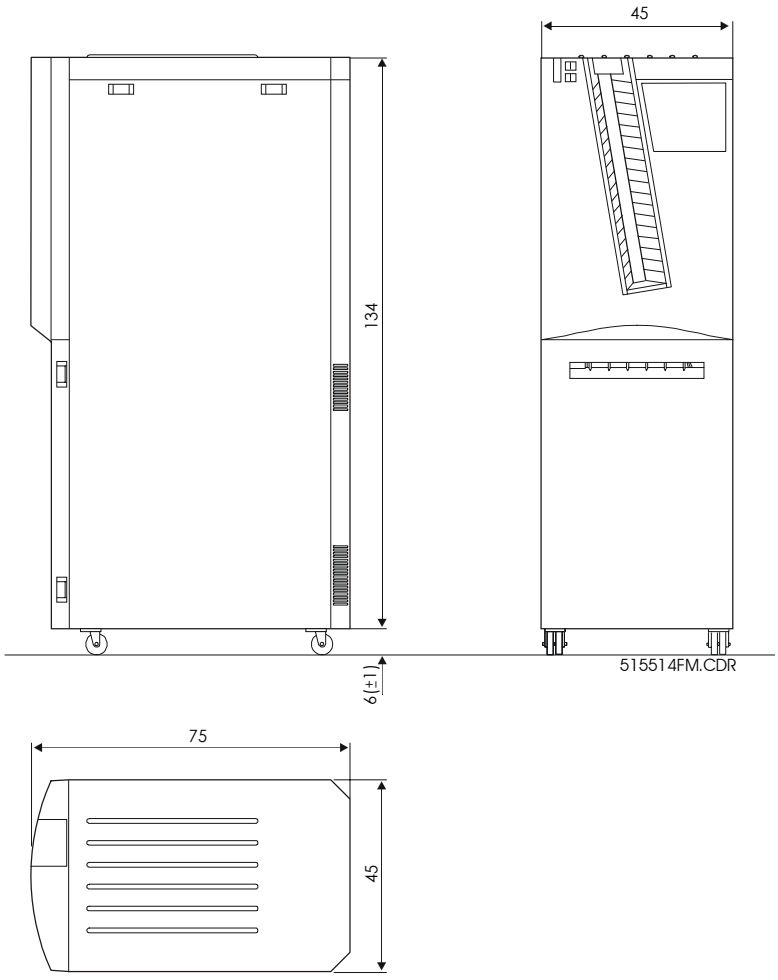


Free space as shown in the drawing must be reserved for repair and maintenance.

Less space may result in longer repair times!

Recommended free space for the ventilation, Power and Ethernet connection.

All dimensions in cm



4 Specifications

For the Specifications of the PC and Workstation from the ID - Station, (V)DIPS and Preview Station please refer to the "Technical Data" of the corresponding USER MANUALS.

4.1 Digitizer

4.1.1 Environmental requirements

The ADC SOLO Digitizer must be installed at a location at which the following operating conditions can be provided:

Room temperature: minimum 15°C, maximum 30°C

Heat emission: into the room during standby mode 400 W, maximum 1100 W.

Relative humidity: At a room temperature of 25 °C minimal 15 %, maximal 75 %

Effects of radiation: If the machine is located in the immediate vicinity of the X-ray room, it is imperative that the local radiation safety regulations are followed. (Protection of operative personnel against scattered radiation).

Installation in the X-ray room is only possible if a radiation protection wall is provided on site. Size and position of the radiation protection wall must be designed in such a way that the machine is neither exposed to direct radiation nor scattered radiation.

Max. permissible magn. field in the room: according to EN 61000-4-8 Level 5

Noise level: max. 65 dB (A)

4.1.2 Power requirements

Installation regulations: Electrical installations in the installation room must be in compliance with:

IEC 364 (VDE 0100) regulations for Europe
NEC for USA / Canada

GFCI switch: Not compulsory but recommended.

Upon machine installations it must be ensured that either the mains connector of the respective machine or an all-pole circuit breaker for the installation on site is located close to the machines and easily accessible.

Mains connection:

- Fixed connection through the floor via an all-pole circuit breaker, liquid-proof installation **or** Connection via plug and socket.

Mains voltage:	100 / 120 / 230-240V 1N~
Frequency	50Hz (47 - 53 Hz)
external Fuse protection:	min. 15A, max. 20A slowblow.
Required connection cable	Euro-DIN connection cable, US connection cable
Power consumption	maximum 15A
Leakage current toward earth connection	≤ 3,5 mA

4.2 Safety regulations

Important note:

According to IEC 60601 / VDE 0750 Part 1, this equipment is not classified as a "medical electrical equipment.

The Digitizer is tested in compliance with:

- EN 60950 / IEC 950 / VDE 0805/11.97
- EN 60825 - 1 :1996
- UL 1950
- CSA 22.2 No. 950

TÜV Product Service Approval Certificate
UL - approved (UL1950)
CUL - approved (CSA 22.2 No 950-95, 3rd edition)

The Digitizer and the ID-Tablet is in compliance with EG regulation 93/42/EEC (Medical directive)

Radio interference suppression:

- It is hereby certified that the Digitizer has interference suppression according to EN 55011 Class B as well as FCC Rules CR47 Part 15 Class A (North-America).
- It is hereby certified that the ID Tablet has interference suppression according to EN 55011 Class A as well as FCC regulations code 47 CFR part 15 subpart B (1995) Class A.

Warning:

This equipment generates uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in an residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

Calibration regulations: Only applies to the Federal Republic of Germany at this time.

Upon installation and maintenance work on the processor the provisions of the X-ray regulations (§ 16 Sec. 1) with respect to the final inspection test by the manufacturer or supplier must be considered.